PATENT COOPERATION 1.. SATY

From	n the ERNATIONAL SEA	ARCHING AUTH	ORITY	_						
То	:			PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
	see form	PCT/ISA/220								
				(1	PCT Rule 43 <i>bis</i> .1)					
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)						
	licant's or agent's file form PCT/ISA/2	e reference 20 TH	2231-PCT	FOR FURTHER ACTION See paragraph 2 below						
	mational application T/US2004/00295		International filing date (03.02.2004	day/month/year)	Priority date (day/month/year) 05.02.2003					
	International Patent Classification (IPC) or both national classification and IPC C07C15/107, C07C2/10, C07C5/27									
	licant ELL OIL COMPA	ANY								
1.	This opinion contains indications relating to the following items:									
	☑ Box No. I	Basis of the op		3						
ļ	Box No. II	Priority								
	☐ Box No. III	•	nent of opinion with rega	ard to novelty, inventiv	ve step and industrial applicability					
	☐ Box No. IV	Lack of unity of		,	o otop and modernal applicationary					
	☑ Box No. V	Reasoned state applicability; cit	ement under Rule 43 <i>bis</i> tations and explanations	.1(a)(i) with regard to s supporting such state	novelty, inventive step or industrial ement					
	☐ Box No. VI	Certain docum	ents cited							
	Box No. VII	Certain defects	in the international app	lication						
	☐ Box No. VIII	Certain observa	ations on the internation	al application						
2.	FURTHER ACTI	ION								
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply when the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.										
	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,									
	For further options, see Form PCT/ISA/220.									
3.	3. For further details, see notes to Form PCT/ISA/220.									
Name	and mailing addres	e of the ISA		Authorized Office						
		~ ~ u ~		Authorized Officer						

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/002954

_						
_	Во	x N	o. I Basis of the opinion			
1	. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.					
		lai	nis opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
			a sequence listing			
			table(s) related to the sequence listing			
	b. format of material:					
			in written format			
	1		in computer readable form			
	c. ti	ime	of filing/furnishing:			
	I		contained in the international application as filed.			
	ī	\supset	filed together with the international application in computer readable form.			
	[3	furnished subsequently to this Authority for the purposes of search.			
3.		cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.			
4.	Additional comments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/002954

_	Bo	x No. II	Priority					
1	. 🖾	☑ The following document has not been furnished:						
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).					
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).					
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	3. Additional observations, if necessary:							
		c No. V ustrial a	Reasoned stateme pplicability; citations	ent und	ler Rule 43 <i>t</i> explanation	ois.1(a)(i) with regard to novelty, inventive step or supporting such statement		
1.	I. Statement							
	Nov	elty (N)		Yes: No:	Claims Claims	1-30		
	Inve	entive ste	ep (IS)	Yes:	Claims			
				No:	Claims	1-30		
	Indu	istrial ap	plicability (IA)	Yes: No:	Claims Claims	1-30		
2.	Citat	tions and	d explanations					

see separate sheet

Re Item V.

The following documents are referred to in this communication: 1

D1: US 6 187 981 B1 (GALPERIN LEONID B ET AL) 13 February 2001 (2001-02-13)

D2: US 6 111 158 A (MARINANGELI RICHARD E ET AL) 29 August 2000 (2000-08-29)

D3: US 6 515 169 B1 (GALPERIN LEONID B ET AL) 4 February 2003 (2003-02-04)

In the light of D1 (col. 4, lines 54-65, col.16, line 66 - col. 18, line 49; col.25, line 44 col.32, line 36; claims 1-35) and in combination with D2 (col. 5, line 49 - col. 12, line 49; claims 1-18) and D3 (col.6, line 65 - col. 32, line 45; claims 1-34) claims 1-30 do not involve an inventive step (Art. 33(3) PCT) as the object of the present application, namely to provide a method of preparing branched alkyl aromatic hydrocarbons and the present solution has already been suggested by said documents.